CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KD&Co/W.No.16/CSR-03/300g/CEMENT/2016-17 Date: 20.03.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
*** Agency**	:	**M/s. K. Damodar & Co.,** No.71, East Park Road, Between 13rh and 14th Cross, Malleshwaram, Bangalore – 560 003.
*** Name of Work**	:	Construction of Building and Development of Govt. School and improvements in school premises at Jalahalli village in Ward No.16, BBMP, Bangalore.
*** Reference**	:	EE(Proj)/RRN/WO/48/2016-17 Dated: 27.10.2016
*** Sample ID**	:	Cement (Ramco 43 Grade)
Sample Received on	:	18.03.2017
Period of Testing	:	18.03.2017 to 20.03.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

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T-2377

Job No.: CTCE/BBMP/KD&Co/W.No.16/CSR-03/300g/SAND-Gradation/2016-17 20.03.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
* Agency	: **M/s. K. Damodar & Co.,** No.71, East Park Road, Between 13rh and 14th Cross, Malleshwaram, Bangalore – 560 003.
* Name of Work	: Construction of Building and Development of Govt. School and improvements in school premises at Jalahalli village in Ward No.16, BBMP, Bangalore.
* Reference	: EE(Proj)/RRN/WO/48/2016-17 Dated: 27.10.2016
* Sample ID	: Fine Aggregates (Robo Sand)
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 18.03.2017
Date of Testing	: 20.03.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.70	90-100	90-100	90-100	95-100
2.36	76.70	60-95	75-100	85-100	95-100
1.18	54.70	30-70	55-90	75-100	90-100
600 Micron	25.70	15-34	35-59	60-79	80-100
300 Micron	13.50	5-20	8-30	12-40	15-50
150 Micron	6.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil-Tech Consultants & Engineers Bangalore

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Technical Manager

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Job No.: CTCE/BBMP/KD&Co/W.No.16/CSR-03/300g/AGG/GR/2016-17 20.03.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
* Agency	:	**M/s. K. Damodar & Co.,** No.71, East Park Road, Between 13rh and 14th Cross, Malleshwaram, Bangalore – 560 003.
* Name of Work	:	Construction of Building and Development of Govt. School and improvements in school premises at Jalahalli village in Ward No.16, BBMP, Bangalore.
* Reference	:	EE(Proj)/RRN/WO/48/2016-17 Dated: 27.10.2016
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	18.03.2017
Date of Testing	:	20.03.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	37.44	30-70	0-20
10	17.24	10-35	0-5
4.75	2.74	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager